

## Heart of Darkness

by Arya Akhavan (October 2012)

Angles for R.I. = 1.760

137 + 24 girdles = 161 facets

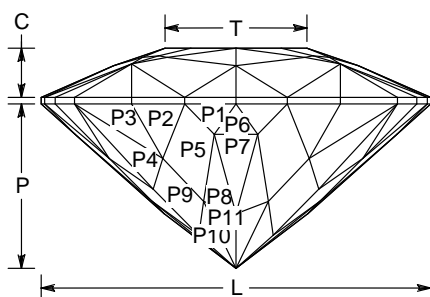
4-fold, mirror-image symmetry

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L/W = 1.000 T/W = 0.365 U/W = 0.365

P/W = 0.422 C/W = 0.126

Vol./W<sup>3</sup> = 0.203



### PAVILION

P1	43.24°	01-23-25-47-49-71-73-95	Cut to centerpoint.
P2	42.75°	03-21-27-45-51-69-75-93	Meet at culet.
P3	41.75°	05-19-29-43-53-67-77-91	Meet at culet.
G1	90.00°	01-23-25-47-49-71-73-95	Set stone size.
G2	90.00°	03-21-27-45-51-69-75-93	Level girdle.
G3	90.00°	05-19-29-43-53-67-77-91	Level girdle.
P4	39.69°	06-18-30-42-54-66-78-90	Meet P3, G3
P5	41.75°	02-22-26-46-50-70-74-94	Meet P1, P2, G1, G2; P2, P3, P4
P6	41.95°	96-24-48-72	Meet P1, G1
P7	41.69°	96-24-48-72	Meet P1, P5, P6
P8	41.30°	01-23-25-47-49-71-73-95	Meet P1, P5, P6, P7
P9	38.50°	05-19-29-43-53-67-77-91	Meet P2, P3, P4, P5
P10	37.12°	03-21-27-45-51-69-75-93	Meet P5, P8, P9
P11	37.50°	02-22-26-46-50-70-74-94	Meet P5, P8, P9, P10; culet

### CROWN

C1	23.71°	01-23-25-47-49-71-73-95	Set girdle width.
C2	24.07°	03-21-27-45-51-69-75-93	Level girdle.
C3	24.83°	05-19-29-43-53-67-77-91	Level girdle.
C4	22.89°	02-22-26-46-50-70-74-94	Meet G1, G2, C1, C2
C5	18.79°	01-23-25-47-49-71-73-95	Meet C1, C4
C6	12.12°	10-14-34-38-58-62-82-86	Meet C2, C3, C4
C7	9.67°	08-16-32-40-56-64-80-88	Meet C4, C5, C6
T	0.00°	Table	Meet C5, C7

This pattern was designed for Jordan Wilkins, who asked for a square cushion "with good light return and a lot of sparkle", in dark Nigerian sapphire. He just so happened to ask me to design this when I needed a break from studying. Can be cut in materials from peridot to CZ (RI = 1.65 - 2.16) with no changes.

Suggested size = 6-12 mm

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